

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. 49		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office – ODIN – OP-MS Kennedy Space Center, FL 32899		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) OAO Corporation 7500 Greenway Center Drive Greenbelt MD 20770				(x)		9A. AMENDMENT OF SOLICITATION NO.
						9B. DATED (SEE ITEM 11)
						10A. MODIFICATION OF CONTRACT/ORDER NO. NAS5-98144/CC90303B
						10B. DATED (SEE ITEM 13) December 1, 2001
CODE		FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<p>[] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [] is extended, [] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:</p> <p>(a) By completing Items 8 and 15, and returning ____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.</p>						
12. ACCOUNTING AND APPROPRIATION DATA (If required)						

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: NAS5-98144 Contract Clause C.7 Technology Refreshment Process and FAR Clause 52.212-4 Contract Terms and Conditions-Commercial Items, (c) Changes
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor [] is not, [**X**] is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Stennis Space Center --- ODIN SERVICES

Technology Infrastructure: SWR **XK35 2491 00**

Change in Delivery Order Price: \$20,898.67 (INCREASE)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Lisa A. Nicholson Contracts Manager		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Penelope A. Ebright Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY (Signature of Contracting Officer)	

1. In accordance with Master Contract NAS5-98144, C.7, Technology Refreshment Process, the technology refreshment services referenced below is hereby incorporated into this Delivery Order at a fixed price of \$20,898.67.

SWR #	Subject	Amount
XK35 2491 00	Cable Plant Expansion to B2120	\$20,898.67

2. SWR XK35 2491 00

The contractor shall provide the labor (including, but not limited to, engineering, configuration management, user coordination/scheduling, wiring/cabling and equipment installation) and materials necessary to install (1) 50-pair copper cable, (1) .500 coax from the pole in front of B2120 through new conduit to the old section of B2120; remove the existing fiber cable from B2120 and place through the new conduit to the old section of B2120 and remove the existing aerial cables after cutover to the new buried cables as identified in OAO proposal dated July 23, 2002.

a. The contractor shall perform the following tasks:

- 1) Remove existing 12-multimode/12 singlemode fiber cable from conduit that feeds B2120.
- 2) Install (1) new hand hole on the north side of driveway on conduit where fiber was removed in item (1) above.
- 3) Core drill manhole for 4" PVC conduit from pole.
- 4) Install (1) 4" PVC conduit from pole to existing manhole.
- 5) Core drill hand hole for 4" PVC and 3" PVC conduits.
- 6) Install (1) 3" PVC conduit from hand hole to old section of building B2120.
- 7) Install (1) 3" rigid conduit e/w rigid LB up wall of old section of B2120.
- 8) Install (1) 100-pair copper cable, (1) .500 coax and (1) 12/12 fiber cable from pole in front of building thru new conduit to manhole, then thru existing conduit under driveway to new hand hole, then thru new 3" PVC conduit to old section of B2120, then up 3" rigid conduit into B2120.
- 9) Make (1) 100-pair aerial splice in front of B2120 using new 100-pair cable in item (8) above.
- 10) Install (1) 100-pair protector e/w 3B1E-W protector units and ground to approved ground in B2120 and remove existing 25-pair protector.
- 11) Make (1) 100-pair building splice in B2120 to new 100-pair protector.
- 12) Terminate 12-multimode/12 singlemode fiber cable into new ST connectors and place in existing LIU.
- 13) Install (1) .500 splice connector on .500 coax at pole in front of B2120.
- 14) Install (1) .500 connector on .500 coax in building to connect to multi-port tap.
- 15) Test and label new cables in B2120.
- 16) Place fiber cross connects to reactivate the LAN network and the Video network.
- 17) Place copper cross connects to reactivate the telephones in B2120.

b. The contractor shall provide the following material:

- 1) 375 FT of 100-pair filled copper cable (E-005024DFC)
- 2) 375 FT of .500 coax (GFE)
- 3) 100 each protector units 3B1E-W (105114)
- 4) 80 FT of 3" schedule 80 PVC conduit
- 5) 40 FT of 4" schedule 80 PVC conduit
- 6) 24 each cool cure consumables (142172)
- 7) 12 each P3020A-Z-125 ST singlemode connectors (157475)
- 8) 12 each P2020C-C-125 ST multimode connectors (118974)
- 9) 10 FT of 3" rigid conduit
- 10) 5 each 710SC1-25 splice module (053938)
- 11) 3 each 4" PVC couplers
- 12) 3 each 3" PVC couplers
- 13) 1 each wall strap (003524)
- 14) 1 each protector 489ACA1-100 (194849)
- 15) 1 each precast handhold
- 16) 1 each 4" 90 degree PVC bend
- 17) 1 each 3" rigid sleeve
- 18) 1 each 3" PVC connector
- 19) 1 each 3" rigid electrical LB
- 20) 1 each 3" rigid 90 degree bend
- 21) 1 each .500 splice connector (036248)

c. Schedule: The completion of this effort shall be (6) six weeks after the receipt of a signed Modification.

3. Part II "Contract Administration Data", Item 4, is revised as indicated below to incorporate the increase of \$20,898.67 for these infrastructure upgrades:

4. TOTAL DELIVERY ORDER VALUE (through Mod No. 49)

Ordered Seats/Service Levels (Attachment A)	\$2,873,200.27
Catalog Actuals	\$190,834.70
Specialized Services	\$2,850.00
Infrastructure Upgrades	\$1,096,868.00
Sub-total	\$4,142,854.30
Less credits	(\$1,181.83)
Less retainage not earned	(\$33,473.26)
Sub-total	\$4,129,097.88
Seats/Service levels projected through 11/30/04	\$12,841,388.80
Total Estimated Delivery Order Value:	\$16,970,486.68

4. Part V "Technology Infusion (Infrastructure Upgrades)", Item 2 is modified to include the subject infrastructure upgrades. The signed date and completion date will be completed in a future infrastructure upgrade modification.

Mod. No.	Description of Work	Date Signed	Completion Date	Modification Value
49	XK35 2491 00 Cable Plant Expansion inB2120			\$20,898.67

5. Payment Schedule: Invoicing and Payment for this modification will be made in accordance with Master Contract NAS5-98144, FAR 52.212-4: Commercial Items (May 1997) (Modified).
6. Reporting requirements: The contractor shall provide monthly status reports to the SSC Alternate DOCOTR, with a copy to the DOCO. These reports shall include, as a minimum, installation progress, and potential problem areas.
7. In consideration of the modification agreed to herein as complete equitable adjustment for the changes set forth, the Contractor hereby releases the Government from any and all liability under this delivery order for further equitable adjustments attributable to such facts or circumstances giving rise to these changes.
8. All other terms and conditions of this Delivery Order remain unchanged and in full force and effect.